

NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF AGRONOMY

Results of Seed Tests
For 1916

MADE FOR THE
STATE DEPARTMENT OF AGRICULTURE



By F. W. TAYLOR and F. S. PRINCE

NEW HAMPSHIRE COLLEGE
OF
AGRICULTURE AND THE MECHANIC ARTS
DURHAM, N. H.

NEW HAMPSHIRE COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION, DURHAM, N. H.

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THE FERTILIZER INSPECTION FOR 1916.

The samples of fertilizer for the 1916 inspection were collected by Mr. A. G. Weeks for the Commissioner of Agriculture, Andrew L. Felker. One hundred and forty samples were taken and analyzed. This is the smallest number of brands sampled for a number of years. This condition is due to the potash situation, which caused a curtailment in the number of brands manufactured. A little less than half the brands of fertilizer inspected this year carried 1% potash. The 1917 brands are not likely to carry potash except in very rare instances. No material improvement along these lines can be hoped for until after the present war is ended.

The analytical work in this report has been prepared with the assistance of A. J. Grant, E. N. Sanders and Merton Lane.

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MANUFACTURER AND BRAND.	NITROGEN.			PHOSPHORIC ACID.				POTASH.		
	Inorganic.	Organic.	Total.	Available.		Insoluble.	Total.		Found.	Guaranteed.
				Found.	Guaran- teed.		Found.	Guaran- teed.		
AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York City.										
Ammoniated Fertilizer A.....	6.70	.52	1.18	.82	9.87	10.00	2.80	12.67	11.00	.....
Ammoniated Fertilizer AA.....	.84	.85	1.69	1.65	9.80	10.00	3.35	13.15	11.00	.....
Ammoniated Fertilizer AAA.....	1.64	.99	2.63	2.47	9.57	10.00	3.35	12.92	11.00	.....
Ammoniated Fertilizer AAAA.....	3.07	.49	3.56	3.29	10.38	10.00	2.37	12.75	11.00	.....
Bradley's Complete Manure for Potatoes and Vegetables, 1916...	2.33	1.07	3.40	3.29	9.27	9.00	2.45	11.72	10.00	.96
Bradley's Complete Manure for Top-Dressing Grass and Grain, 1916.....	2.93	1.25	4.18	4.11	8.06	8.00	2.00	10.60	9.00	1.04
Bradley's Corn Phosphate, 1916.....	1.15	.52	1.67	1.65	10.83	10.00	1.97	12.80	11.00	1.05
Bradley's Eclipse Phosphate, 1916.....	.63	.70	1.33	1.23	10.68	10.00	1.52	12.20	11.00	1.06
Bradley's Potato Fertilizer, 1916.....	1.21	.87	2.08	2.06	8.08	8.00	2.40	10.48	9.00	1.01
Bradley's Potato Manure, 1916.....	1.60	.93	2.53	2.47	10.30	9.00	1.00	11.30	10.00	.95
Bradley's X. L. Super Phosphate of Lime, 1916.....	1.54	.94	2.48	2.47	9.14	9.00	2.07	11.21	10.00	.98
Cleveland General Crop Fertilizer, 1916.....	.56	.34	.90	.82	8.50	8.00	1.57	10.07	9.00	1.11
Complete Manure for Top-Dressing, 1916.....	3.01	1.05	4.06	4.11	8.37	8.00	2.15	10.52	9.00	1.20
Cleveland Potato Phosphate, 1916.....	1.61	.67	2.28	2.06	8.50	8.00	2.00	10.50	9.00	1.01
Crocker's Ammoniated Corn Phosphate, 1916.....	1.74	.36	2.10	2.06	9.43	8.00	1.27	10.70	9.00	1.21
Cumberland Potato Fertilizer, 1916.....	1.04	1.03	2.07	2.06	8.55	8.00	1.90	10.45	9.00	1.07
Crocker's Potato, Hop and Tobacco Fertilizer, 1916.....	1.12	1.26	2.38	2.06	10.15	10.00	1.92	12.07	11.00	1.09
Darling's Blood, Bone and Potash, 1916.....	2.94	1.18	4.12	4.11	8.12	8.00	2.40	10.52	9.00	1.00
Darling's Farm Favorite, 1916.....	1.02	.66	1.68	1.65	10.65	10.00	2.32	12.97	11.00	1.02
Darling's General Fertilizer, 1916.....	.39	.72	1.11	.82	8.70	8.00	1.75	10.45	9.00	1.08
Darling's Potato Manure, 1916.....	2.19	.63	2.82	2.47	9.88	9.00	1.92	11.80	10.00	1.11
General Crop Grower, 1916.....	1.77	.50	2.31	1.65	10.45	9.00	2.22	12.57	10.00	1.27
Grass and Lawn Top-Dressing, 1916.....	2.45	1.28	3.73	3.70	8.45	8.00	2.50	10.95	9.00	1.05
Great Eastern General, 1916.....	.34	.56	.90	.82	8.48	8.00	1.47	9.95	9.00	1.03

Great Eastern High Grade Potato Fertilizer, 1916.....	2.24	1.09	3.33	3.29	8.85	9.90	2.55	11.40	10.00	1.06	1.00
Great Eastern Northern Corn Special, 1916.....	1.35	.86	2.21	2.06	9.40	8.00	.90	10.30	9.00	.80	1.00
Great Eastern Potato Manure, 1916.....	1.82	.27	2.09	2.06	10.45	10.00	2.05	12.50	11.00	1.07	1.00
High Grade Fertilizer, 1916.....	1.72	.90	2.62	2.47	9.23	9.00	2.49	11.82	10.00	1.02	1.00
High Grade Grass Top-Dressing without Potash, 1916.....	5.38	1.28	6.66	6.58	8.32	8.00	1.95	10.27	9.00	.....	.....
Nitrate of Soda.....	.....	.....	15.98	15.00	.....	.....	.....	.....	.....	.....	.....
Pacific Potato Special, 1916.....	2.03	.27	2.30	2.06	8.56	8.00	1.17	9.73	.....	1.22	1.00
Packer's Union Animal Corn Fertilizer, 1916.....	1.35	.35	1.70	1.65	11.30	10.00	1.32	12.62	11.00	1.01	1.00
Quinnipiac Corn Manure, 1916.....	.98	.74	1.72	1.65	10.40	10.00	2.20	12.60	11.00	1.03	1.00
Quinnipiac Potato Phosphate, 1916.....	1.22	1.18	2.40	2.06	8.13	8.00	2.82	10.95	9.00	1.16	1.00
Soluble Pacific Guano, 1916.....	1.16	.80	1.96	1.65	10.88	10.00	1.22	12.10	11.00	1.00	1.00
Special Vegetable Guano, 1916.....	2.42	1.11	3.53	3.29	9.80	9.00	1.32	11.12	10.00	1.60	1.00
Top Dresser, 1916.....	3.25	1.05	4.30	4.11	8.30	8.00	2.30	10.60	9.00	1.26	1.00
Williams & Clark American Potato Manure, 1916.....	1.18	1.13	2.31	2.06	8.28	8.00	2.57	10.85	9.00	1.06	1.00
14% Plain Super-Phosphate.....	.....	.....	.....	.....	14.50	14.00	2.00	16.50	15.00	.....	.....
16% Plain Super-Phosphate.....	.....	.....	.....	.....	16.05	16.00	1.95	18.00	17.00	.....	.....
ARMOUR FERTILIZER WORKS, Chrome, N. J.											
Armour's 2-8-1 Fertilizers.....	.46	1.20	1.66	1.65	9.00	8.00	.80	9.80	8.50	.98	1.00
Armour's 2-11 Fertilizers.....	.52	1.19	1.71	1.65	11.25	11.00	1.45	12.70	11.50	.....	.....
Armour's 3-8-1 Fertilizers.....	1.02	1.67	2.69	2.47	8.48	8.00	1.42	9.90	8.50	1.01	1.00
Armour's 4-8 Fertilizers.....	1.95	1.37	3.32	3.29	9.12	8.00	.80	9.92	8.50	.....	.....
Armour's 4-8-1 Fertilizers.....	1.85	1.48	3.33	3.29	8.14	8.00	1.47	9.61	8.50	1.03	1.00
Armour's 5-10 Fertilizers.....	2.66	1.35	4.01	4.11	10.30	10.00	1.25	11.55	10.50	.....	.....
Armour's Star Phosphate Fertilizers.....	.....	.....	.....	.....	15.00	14.00	.55	15.55	14.50	.....	.....
Armour's Wheat, Corn and Oat Special Fertilizers.....	.10	.63	.73	.82	6.78	7.00	1.67	8.45	7.50	.98	1.00
BOWKER FERTILIZER COMPANY, Boston and New York.											
Bowker's All Round Fertilizer, 1916.....	.91	1.31	2.22	2.06	10.67	10.00	3.45	13.12	11.00	1.06	1.00
Bowker's Brighton Phosphate.....	.91	.14	1.05	.82	8.88	8.00	1.82	.....	.....	1.93	1.00
Bowker's Corn Phosphate, 1916.....	1.16	.67	1.83	1.65	10.37	10.00	2.15	12.52	11.00	.93	1.00
Bowker's Farm and Garden Phosphate, 1916.....	1.11	.72	1.83	1.65	10.83	10.00	2.12	12.95	11.00	1.06	1.00
Bowker's Fresh Ground Bone.....	.....	.....	2.55	2.47	.....	.....	.....	23.70	22.88	.....	.....
Stockbridge General Crop Manure, 1916.....	2.50	1.02	3.52	3.29	9.15	9.00	2.05	11.20	10.00	1.14	1.00
Bowker's Hill and Drill Phosphate, 1916.....	1.60	.92	2.52	2.47	8.80	9.00	2.85	11.65	10.00	1.05	1.00
Bowker's Potato Phosphate, 1916.....	1.25	.51	1.76	1.65	10.97	10.00	2.15	13.12	11.00	1.02	1.00
Bowker's Super-Phosphate with Ammonia, 1%.....	.40	.50	.90	.82	11.30	10.00	1.40	12.70	11.00	.....	.....
Bowker's Super-Phosphate with Ammonia, 2%.....	1.28	.49	1.77	1.65	9.05	10.00	3.52	12.57	11.00	.....	.....

MANUFACTURER AND BRAND.	NITROGEN.			PHOSPHORIC ACID.				POTASH.			
	Inorganic.	Organic.	Total.		Available.		Insoluble.	Total.			
			Found.	Guaran- teed.	Found.	Guaran- teed.		Found.	Guaran- teed.		
Bowler's Sure Crop Phosphate, 1916.....	.60	.39	.99	.82	10.82	10.00	2.05	12.87	11.00	.93	1.00
Stockbridge Early Crop Manure, 1916.....	3.15	1.02	4.17	4.11	8.05	8.00	2.65	10.70	9.00	.96	1.00
Stockbridge Cereal Manure without Potash, 1916.....	2.62	.88	3.50	3.29	10.85	10.00	2.37	13.22	11.00	.....	....
JOSEPH BRECK & SONS, Boston, Mass.											
Ram's Head Brand Pulverized Sheep Manure.....	.....	.....	2.12	.....	1.45	.....	.95	2.40	1.50	2.52	1.50
JOHN C. DOW COMPANY, Boston, Mass.											
Dow's Pure Ground Bone.....	.....	.....	2.10	2.00	.....	.....	.....	23.97	24.00	.....	....
Ground Tankage.....	.....	.....	5.14	5.00	.....	.....	.....	15.90	14.00	.....	....
ESSEX FERTILIZER COMPANY, Boston, Mass.											
Essex Manure for Corn, Grain and Grass, 4-10-1.....	1.26	2.02	3.28	3.28	10.53	10.00	1.77	12.30	11.00	1.05	1.00
Essex Manure for Potatoes, Roots and Vegetables, 4-10-1.....	1.32	1.86	3.18	3.28	10.30	10.00	1.40	11.70	11.00	1.02	1.00
Essex Market Garden and Potato Manure, 3½-10.....	1.07	1.87	2.94	2.87	10.15	10.00	2.40	12.55	11.00	.....	....
Essex Potato Grower, 5-10.....	2.52	1.63	4.15	4.10	10.70	10.00	2.02	12.72	11.00	.....	....
Essex Tobacco Manure, 5-6.....	1.44	2.99	4.43	4.10	7.38	6.00	2.83	10.23	7.00	.....	....
Essex XXX Fish and Potash for All Crops, 3-10.....	.80	1.74	2.54	2.46	10.05	10.00	2.17	12.22	11.00	.....	....
HOOSAC VALLEY LIME CO., INC.											
Adams Lime Ashes.....	.....	.....	.....	.....	.62	.....	.50	1.12	.70	.....	1.00
Adams Lime Ashes.....	.....	.....	.....	.....	.48	.....	1.02	1.50	.70	.....	1.77

INTERNATIONAL AGRICULTURAL CORPORATION,
Buffalo, N. Y.

Buffalo Farmers' Choice.....	.09	.82	.91	.80	10.90	10.00	1.67	12.57	11.00	.....	.....
Buffalo General Favorite.....	1.04	.11	1.15	.80	8.85	8.00	1.50	10.35	9.00	1.04	1.00
Buffalo High Grade Manure.....	1.80	1.62	3.42	3.30	8.12	8.00	1.55	9.67	9.00	1.04	1.00
Buffalo New England Special.....	.81	1.04	1.85	1.60	10.20	10.00	1.77	11.97	11.00	.....	.....
Buffalo Standard.....	.73	2.09	2.82	3.30	11.10	10.00	1.65	12.75	11.00	.....	.....
Buffalo Top Dresser.....	3.52	1.86	5.38	5.80	6.93	6.00	2.37	9.30	7.00	.....	.....
Buffalo Vegetable and Potato.....	1.61	1.50	3.11	2.50	10.54	10.00	1.47	12.01	11.00	.....	.....

LISTER'S AGRICULTURAL CHEMICAL COMPANY,
Newark, N. J.

Lister's Corn and Potato Fertilizer, 1916.....	1.46	.80	2.26	2.06	8.10	8.00	2.40	10.50	9.00	1.08	1.00
Lister's High Grade Special for Spring Crops.....	1.26	.98	2.24	2.06	10.25	10.00	2.25	12.50	11.00	1.10	1.00
Lister's Potato Manure, 1916.....	3.28	.85	4.13	4.11	8.35	8.00	2.45	10.80	9.00	1.22	1.00
Lister's Standard Pure Super-Phosphate of Lime, 1916.....	1.86	.66	2.52	2.47	9.88	9.00	1.42	11.30	10.00	1.18	1.00
Lister's Success Fertilizer, 1916.....	.69	.59	1.28	1.23	11.08	10.00	1.72	12.80	11.00	1.25	1.00

LOWELL FERTILIZER COMPANY,
Boston, Mass.

Acid Phosphate.....	.....	.....	.....	.....	14.00	14.00	1.45	15.45	15.00	.....	.....
Lowell Animal Brand A High Grade Fertilizer for All Crops, 3½-10.....	1.06	1.84	2.90	2.87	10.53	10.00	1.92	12.45	11.00	.....	.....
Lowell Bone Fertilizer for Corn, Grain, Grass and Vegetables, 2½-10.....	1.01	1.08	2.09	2.05	10.10	10.00	2.35	12.45	11.00	.....	.....
Lowell Corn, Grain and Grass Fertilizer, 5-10.....	2.45	1.78	4.23	4.10	10.17	10.00	2.30	12.47	11.00	.....	.....
Lowell Corn and Vegetables, 5-10.....	1.70	2.53	4.23	4.11	10.48	10.00	1.72	12.20	11.00	.....	.....
Lowell Empress Brand for Corn, Potatoes and Grain, 1½-10.....	.42	1.21	1.63	1.25	9.74	10.00	1.75	11.49	11.00	.....	.....
Lowell Ground Bone.....	.....	.....	2.84	2.46	.....	.....	.....	25.35	23.00	.....	.....
Lowell Ground Steamed Bone.....	.....	.....	2.61	2.46	.....	.....	.....	28.47	20.00	.....	.....
Lowell Market Gardens and Grass Fertilizer, 6-8.....	2.33	2.70	5.03	4.92	8.05	8.00	2.11	10.15	9.00	.....	.....
Lowell Market Garden Special Grass and Lawn Dressing, 6-8.....	2.80	1.89	4.69	4.92	8.50	8.00	1.87	10.37	9.00	.....	.....
Lowell Potato Manure, 3-10.....	.73	1.81	2.54	2.46	10.20	10.00	2.70	12.90	11.00	.....	.....
Lowell Potato Phosphate, 4-10.....	1.29	2.21	3.50	3.28	10.85	10.00	1.90	12.75	11.00	.....	.....
Lowell Potato and Vegetable Fertilizer, 4-10.....	1.65	1.69	3.34	3.28	10.06	10.00	1.67	11.73	11.00	.....	.....
Lowell Sterling Phosphate, 1-12.....	.13	1.03	1.16	.82	12.00	12.00	2.30	14.30	13.00	.....	.....
Lowell Superior Fertilizer, 4½-9-1.....	1.32	2.37	3.69	3.69	9.62	9.00	2.00	11.62	10.00	1.18	1.00

NATURAL GUANO COMPANY,
Aurora, Ill.

Sheep's Head Brand Pulverized Sheep Manure.....			2.26	2.25	1.98	1.00	.67	2.65	1.25	1.80	1.50
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MANUFACTURER AND BRAND.

MANUFACTURER AND BRAND.	NITROGEN.			PHOSPHORIC ACID.			POTASH.	
	Inorganic.	Total.		Available.		Insoluble.	Found.	Guaranteed.
		Found.	Guaran- teed.	Found.	Guaran- teed.			
NATURE'S PLANT FOOD COMPANY, Boston, Mass.								
Nature's Plant Food.....	.....	.....	.....	.....	.....	.....	.04	.....
NEW ENGLAND FERTILIZER COMPANY, Boston, Mass.								
New England Corn Phosphate for Grain and Vegetables, 2½-10...	.55	1.66	2.21	2.05	10.01	10.00	12.30	11.00
New England Corn and Grain Fertilizer, 1½-10.....	.17	1.09	1.26	1.23	10.22	10.00	1.75	11.97
New England Potato Fertilizer, 3-10.....	1.24	1.22	2.46	2.46	10.20	10.00	1.97	12.17
New England Super-Phosphate. A High Grade Fertilizer for All Crops, 3½-10.....	1.58	1.92	3.50	2.87	9.82	10.00	2.50	13.32
NITRATE AGENCIES COMPANY, New York City.								
Acid Phosphate.....	.....	.....	.....	.....	17.31	16.00	.70	18.01
High Grade Acid Phosphate.....	.....	.....	.....	.....	14.90	14.00	1.45	16.35
Ground Tankage.....	3.87	2.11	5.98	5.75	5.35	6.86	6.30	11.65
Nitrate of Soda.....	.....	.....	15.66	15.00	.....	.....	.....	.....
OLDS & WHIPPLE, Hartford, Conn.								
Olds & Whipple's Complete Corn, Potato and Onion Fertilizer...	2.30	1.12	3.42	3.30	6.65	6.00	2.87	9.52
Olds & Whipple's Special Home Mixture.....	1.11	5.38	5.49	.....	4.44	.....	1.63	6.02
Olds & Whipple's Tobacco Special Fertilizer.....	1.44	3.21	4.65	4.50	5.75	5.00	.90	6.65

PARMENTER & POLSEY COMPANY,

Boston, Mass.

P. & P. Corn and Grain Fertilizer, 1-12.....	.57	.38	.95	.82	12.67	12.00	1.40	14.07	13.00	.....	.....
P. & P. Plymouth Rock Brand Fertilizer, 3 1/2-10.....	.98	2.01	2.99	2.97	10.85	10.00	1.30	12.50	11.00	.....	.....
P. & P. Potato Fertilizer, 2 1/2-10.....	.88	1.17	2.05	2.05	9.88	10.00	1.82	11.70	11.00	.....	.....
P. & P. Special Potato Fertilizer, 5-10.....	2.59	1.54	4.13	4.10	9.70	10.00	1.85	11.55	11.00	.....	.....

J. W. SANBORN,

Pittsfield, N. H.

Prof. Sanborn's Chemical Fertilizer for Grass and Grain, Without Potash.....	2.80	2.30	5.10	4.94	10.53	8.00	1.52	12.05	9.00	.....	.....
Prof. Sanborn's Chemical Fertilizer for Hill and Drill, Without Potash.....	1.35	1.37	2.72	2.47	12.73	8.00	.87	13.60	9.00	.....	.....
Prof. Sanborn's Chemical Fertilizer for Potatoes and Corn, Without Potash.....	9.80	2.32	3.30	3.29	8.10	8.00	6.42	14.52	9.00	.....	.....

THE COE MORTIMER COMPANY,

New York City.

E. Frank Coe's XXX Ammoniated Phosphate, 1916.....	.60	.34	.94	.82	10.95	10.00	1.75	12.70	11.00	.....	.....
E. Frank Coe's Columbian Corn and Potato Fertilizer, 1916.....	.66	.64	1.30	1.23	10.33	10.00	1.57	12.10	11.00	1.05	1.00
E. Frank Coe's Gold Brand Excelsior Guano, 1916.....	1.95	.52	2.47	2.47	9.88	9.00	1.77	11.65	10.00	1.05	1.00
E. Frank Coe's High Grade Ammoniated Super-Phosphate, 1916.....	1.55	1.15	2.70	2.47	10.78	10.00	1.92	12.70	11.00	.....	.....
E. Frank Coe's High Grade Soluble Phosphate.....	.....	.....	.....	.....	11.95	14.00	1.75	16.70	15.00	.....	.....
E. Frank Coe's New England Special, 1916.....	.34	.62	.96	.82	9.37	8.00	1.60	10.97	9.00	.88	1.00

THE NATIONAL FERTILIZER COMPANY,

New York and Boston.

National Eureka Potato Fertilizer, 1916.....	2.19	.43	2.62	2.47	9.95	9.00	1.60	11.55	10.00	1.13	1.00
National Nitrogen Phosphate Mixture, No. 3.....	1.89	.73	2.62	2.47	10.75	10.00	2.87	13.62	11.00	.....	.....
National Special Complete Fertilizer, 1916.....	2.41	.64	3.05	3.29	9.80	9.00	1.45	11.25	10.00	1.06	1.00
National XXX Fish and Potash, 1916.....	1.85	.39	2.24	2.06	10.57	10.00	1.85	12.42	11.00	1.01	1.00

THE PULVERIZED MANURE COMPANY,

Chicago, Ill.

Wizard Brand Pulverized Sheep Manure.....			2.47	1.80	1.22	1.00	.65	1.87		2.26	1.00
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MANUFACTURER AND BRAND.

MANUFACTURER AND BRAND.	NITROGEN.			PHOSPHORIC ACID.				POTASH.		
	Inorganic.	Organic.	Total.		Available.		Insoluble.	Total.		
			Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	
THE ROGERS & HUBBARD COMPANY, Middletown, Conn.										
All Soils, All Crops Phosphate, 1916 Formula.....	1.13	1.76	3.19	3.30	7.05	7.00	3.25	10.30	9.00	.....
Nitrate of Soda.....			16.00	15.96						.....
Oats and Top Dressing.....	3.63	2.43	6.06	6.00	6.37	6.00	8.50	11.87	12.00	.....
Pure Raw Knu-ckle Bone Flour.....			3.83	3.82				24.72	24.70	.....
Rogers & Hubbard Potato Phosphate, 1916 Formula.....	.97	1.01	2.01	2.00	12.22	13.00	5.35	17.57	15.00	.....
Soluble Corn and General Crops Manure.....	1.28	1.44	2.72	2.50	9.07	10.00	4.80	13.87	12.00	.....
Soluble Potato Manure.....	2.14	1.91	4.08	4.25	10.65	10.00	7.30	17.95	16.00	1.00
Strictly Pure Fine Bone.....			3.88	3.50				22.20	20.00	.....
J. E. SOPER COMPANY, Boston, Mass.										
Pioneer Cottonseed Meal.....			6.57	6.50						.....
WHITMAN & PRATT RENDERING COMPANY, Lowell, Mass.										
Ground Bone			2.51	2.46				27.95	25.00	

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NAME	RANK	REGIMENT	COMPANY	DATE	PLACE
J. A. B.	1st Lieut.	1st Regt.	A	1861	Vt.
J. C. D.	2nd Lieut.	2nd Regt.	B	1862	N.Y.
J. E. F.	3rd Lieut.	3rd Regt.	C	1863	Pa.
J. G. H.	4th Lieut.	4th Regt.	D	1864	Ill.
J. I. K.	5th Lieut.	5th Regt.	E	1865	Cal.
J. L. M.	6th Lieut.	6th Regt.	F	1866	Tex.
J. N. O.	7th Lieut.	7th Regt.	G	1867	Ark.
J. P. Q.	8th Lieut.	8th Regt.	H	1868	La.
J. R. S.	9th Lieut.	9th Regt.	I	1869	Miss.
J. T. U.	10th Lieut.	10th Regt.	J	1870	Fla.
J. V. W.	11th Lieut.	11th Regt.	K	1871	Ala.
J. X. Y.	12th Lieut.	12th Regt.	L	1872	Ga.
J. Z. A.	13th Lieut.	13th Regt.	M	1873	S.C.
J. B. C.	14th Lieut.	14th Regt.	N	1874	N.C.
J. D. E.	15th Lieut.	15th Regt.	O	1875	Tenn.
J. F. G.	16th Lieut.	16th Regt.	P	1876	Ky.
J. H. I.	17th Lieut.	17th Regt.	Q	1877	Ind.
J. K. L.	18th Lieut.	18th Regt.	R	1878	Ohio
J. M. N.	19th Lieut.	19th Regt.	S	1879	Wis.
J. O. P.	20th Lieut.	20th Regt.	T	1880	Iowa

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